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June 21, 1962

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Enclosed are four Polaroid Photographs of the  T type 829 Comparator in various steps of disassembly.

Photo #1 shows the slide assemblies. Lift the Y axis slides (circled in ink), complete with film stage, up and out. Be careful not to hit the optical system or the dial system. Set it on blocks as shown in Photo #2.

Lift the X axis slide assembly shown in Photo #2 up and out. Be careful of the T/C Head adaptation, dials, ways and optical system, then place on blocks as shown in Photo #3. Measure length of push screw in Photo #3, set the adjustable parallel to .0005 in. greater than length of push screw, place parallel between push blocks shown in Photo #4. The push block believed shifted is indicated on Photo #4, and should be noticeable with the adjusted parallel. Loosen the screws of the shifted push block, replace if necessary with screws furnished, snug the push blocks and parallel together and tighten the screws. DO NOT have an interference fit between the push blocks and the length of the push screw, this can introduce errors during measurement.

Clean the ways, lubricate with way oil, replace the slides in reverse step and with great care.

Check the backlash by setting on a speck of dust in one direction and then another, the difference in the two readings should be at least 10 - 15 microns.

Thank you for attempting to handle this yourself. However, if you think you would prefer to have us come down immediately, we will do so.

DECLASS REVIEW by NIMA/DOD

*Photos Attached to
Re: of Memo*

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We shall most certainly come in to see the equipment on our next trip to your area.

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Very truly yours,

CWZ:pc

